

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 Claim 1 (currently amended): A method for ~~optimising~~
2 optimizing at least one property of a satellite system, said
3 satellite system comprising:

4 □ a satellite provided with a transmitter for
5 transmitting an satellite signal representing data and

6 □ a satellite receiver for receiving said satellite
7 signal, said method comprising:

8 □ receiving at said satellite receiver the satellite
9 signal;

10 □ determining from the satellite signal said data;

11 □ checking the data for data errors; and

12 □ changing said at least one property of the satellite
13 system if a result of said checking satisfies a
14 predetermined criterion

1 Claim 2 (original): A method as claimed in claim 1, wherein
2 said at least one property comprises at least one property
3 of the satellite receiver.

1 Claim 3 (currently amended): A method as claimed in claim 1
2 ~~or 2~~, wherein said at least one property relates to a
3 ~~polarisation~~ polarization of the satellite receiver.

1 Claim 4 (currently amended): A method as claimed in claim 3,
2 wherein said ~~polarisation~~ polarization is a linear

3 ~~polarisation~~polarization or a circular~~polarisation~~
4 polarization.

1 Claim 5 (currently amended): A method as claimed in ~~any one~~
2 ~~of the preceding claims~~claim 1, wherein the satellite
3 receiver comprises an antenna array with at least two
4 antenna elements

1 Claim 6 (original): A method as claimed in claim 5, wherein
2 said antenna array comprises an electrically tunable antenna
3 array.

1 Claim 7 (currently amended): A method as claimed in claim 5
2 ~~or 6~~, wherein said antenna array comprises a phased array
3 antenna.

1 Claim 8 (currently amended): A method as claimed in ~~any one~~
2 ~~of claims 5-7~~claim 5, further comprising:
3 calibrating at least one antenna element
4 and wherein said at least one property comprises at least
5 one of:
6 the gain and/or the phase and/or electrical delay of
7 said at least one antenna element.

1 Claim 9 (currently amended): A method as claimed in ~~any one~~
2 ~~of the claims 2-8~~claim 2, comprising ~~optimising~~optimizing
3 at least one property of an antenna beam of the satellite
4 receiver.

1 Claim 10 (original): A method as claimed in claim 9, further
2 comprising changing the amplitude of the satellite signal
3 before determining said data from the satellite signal.

1 Claim 11 (currently amended): A method as claimed in ~~any one~~
2 ~~of the preceding claims~~claim 1, wherein said at least one
3 property comprises a property of said transmitter.

1 Claim 12 (currently amended): A method as claimed in ~~any one~~
2 ~~of the preceding claims~~claim 1, wherein the data represented
3 by the satellite signal are encoded data encoded by means of
4 a coding algorithm and wherein said determining data errors
5 comprises:

6 decoding the data with a suitable decoding algorithm
7 and determining data errors from said decoded data.

1 Claim 13 (original): A method as claimed in claim 12,
2 wherein the data is encoded with an MPEG-2 compliant coding
3 algorithm, such as an algorithm according to the DVB
4 standard.

1 Claim 14 (currently amended): A method as claimed in
2 claim ~~12 or 13~~, wherein the data is encoded with a forward
3 error correction coding algorithm.

1 Claim 15 (currently amended): A method as claimed in ~~any one~~
2 ~~of claims 12-14~~claim 12, wherein the data is encoded with a
3 Viterbi coding algorithm.

1 Claim 16 (currently amended): A method as claimed in ~~any one~~
2 ~~of claims 12-15~~claim 12, wherein the data is encoded with a
3 Reed-Solomon coding algorithm.

1 Claim 17 (currently amended): A method as claimed in ~~any one~~
2 ~~of the preceding claims~~claim 1, wherein said result
3 satisfies said predetermined criterion if a ratio of an

4 amount of data errors relative to an amount of data exceeds
5 predetermined a threshold value.

1 Claim 18 (original): A method as claimed in claim 17,
2 wherein said ratio is the bit error ratio.

1 Claim 19 (currently amended): An ~~optimisation~~optimization
2 device for a satellite system, comprising:

3 _____an ~~optimisation~~optimization input connectable to at
4 least one signal output of at least one satellite receiver
5 for receiving at least one satellite signal representing
6 data;

7 _____a data error determining section communicatively
8 connected to the ~~optimisation~~optimization input, for
9 determining data errors in said data;

10 _____a comparator for comparing the data errors with a
11 predetermined criterion, said comparator having a comparator
12 output for providing a signal if the data error satisfies
13 said predetermined criterion; and

14 _____an adjuster device for adjusting at least one property
15 of the satellite system in response to an adjust signal from
16 the comparator output.

1 Claim 20 (currently amended): An ~~A~~A satellite receiver,
2 comprising:

3 _____at least one antenna element;

4 _____at least one control device arranged for controlling at
5 least one property of at least one of the antenna elements;
6 said control device having an input for receiving a control
7 signal and an output connected to a control input of the
8 antenna element; and

9 at least one ~~optimisation~~ optimization device as
10 claimed in claim 19 communicatively connected with its
11 ~~optimisation~~ optimization input to a signal output of the
12 antenna element and connected with an ~~optimisation~~
13 optimization output to the input of the control device.

1 Claim 21 (original): A satellite system comprising a
2 satellite with a signal source arranged for transmitting a
3 satellite signal representing binary data and further
4 comprising at least one satellite receiver as claimed in
5 claim 20 for receiving the satellite signal.

1 Claim 22 (currently amended): A computer program product,
2 comprising a program code enabling a programmable device to
3 perform steps of a method as claimed in ~~any one of claims 1-~~
4 ~~18~~ claim 1 when run on said programmable device.